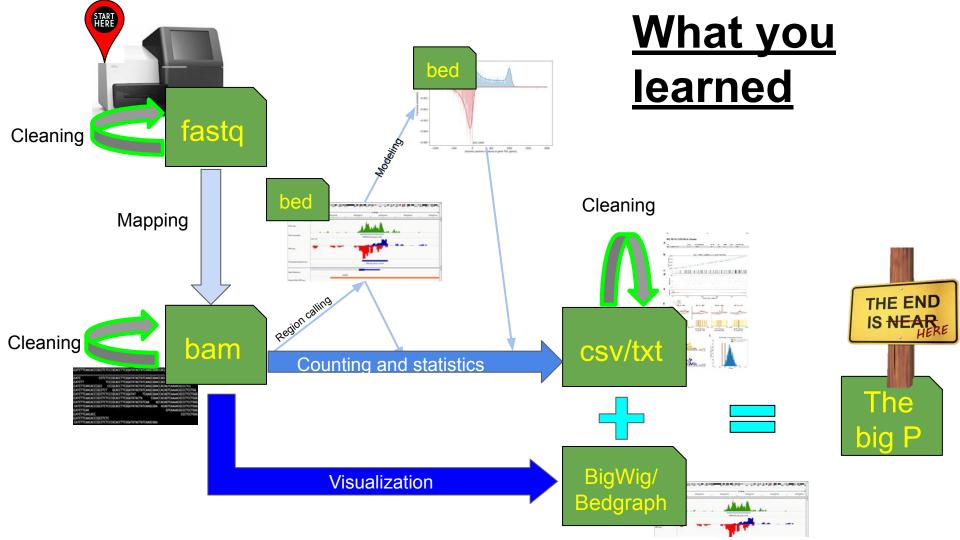


DnA Lab Short read sequencing Workshop





SAFETY REMINDER

USE THE RIGHT TOOL

FOR THE RIGHT JOB

IN THE RIGHT WAY

CREATIVE safety supply creativesafetysupply.com 866-777-1360 # WS530010-24







Proh@Dataeds

Today

- Capstone day 10
- Github, Downloading/Uploading data
- Your questions answered!! (we hope)

Day 10 homework

Keep practicing -- and keep in touch! We would love to hear from you!

The expert in anything was once a beginner.

While these terms are often used interchangeably, there is an important nuance. The chef is a trailblazer, the person who invents recipes. She knows the raw ingredients and how to combine them. The cook, who reasons by analogy, uses a recipe. He creates something, perhaps with slight variations, that's already been created.



The difference is real knowledge as opposed to know-how.

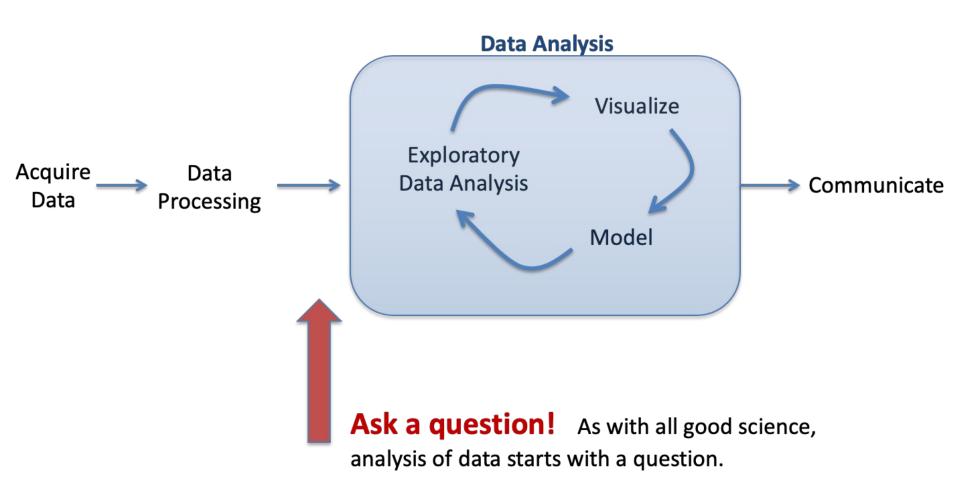
How do I continue my training?

There are numerous online courses in data analysis, data science, programming, machine learning, and visualization.

READ: Books, online articles

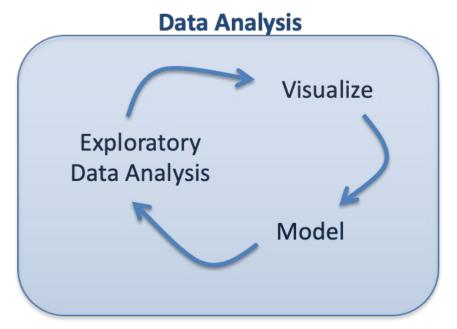
Just do it – practice. Find avenues to use your newly acquired skills.





"The data may not contain the answer. The combination of some data and an aching desire for an answer does not ensure that a reasonable answer can be extracted from a given body of data." ---John Tukey

Inside the analysis box ...











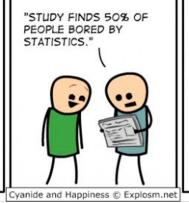
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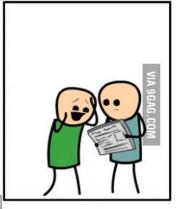


A few words on statistics ...



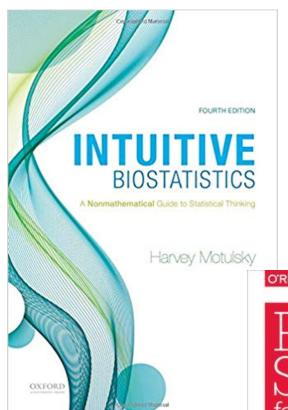




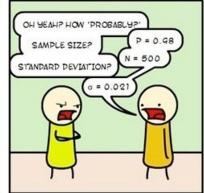


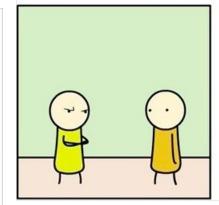
"It's easy to lie with statistics, but it's hard to tell the truth without them."

— Charles Wheelan

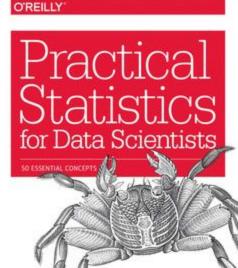






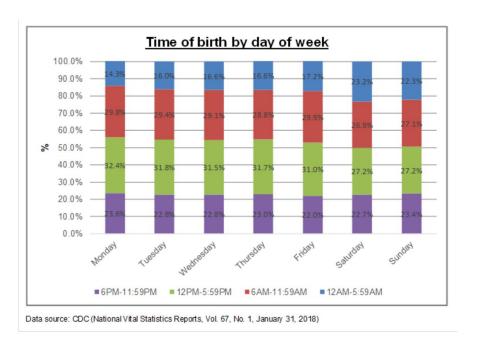




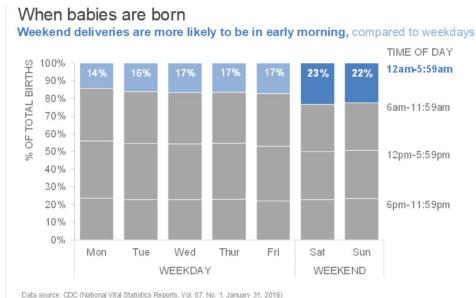


Communicate clearly your data and analysis ...

Ugly graphs are useful for rapid visualization:



But publications and talks call for pretty, message driven graphs:



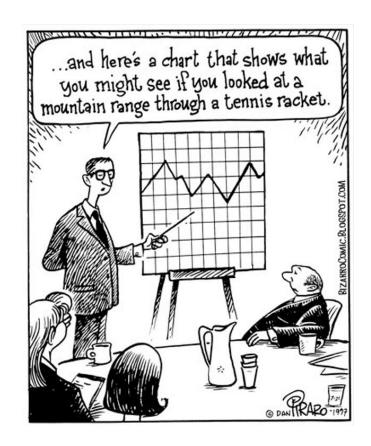


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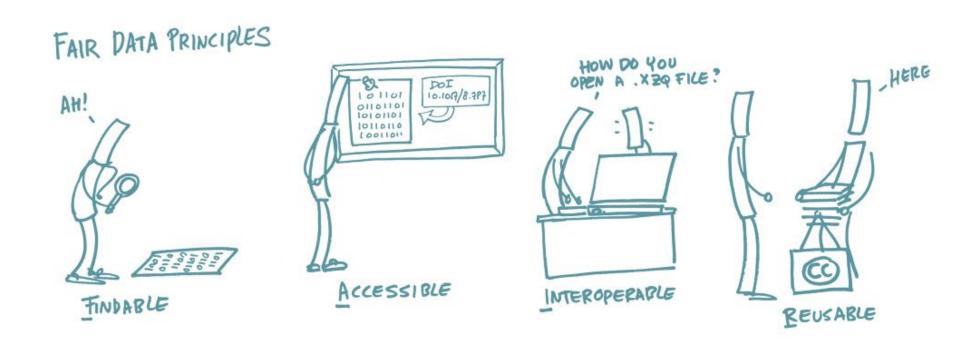
storytelling with data

a data visualization guide for business professionals

WILEY



YOUR data should adhere to FAIR principles



https://www.nature.com/articles/sdata201618

One final word: Skepticism is a healthy skill to have ...



The American Journal of Medicine

Available online 2 December 2022

In Press, Corrected Proof ?



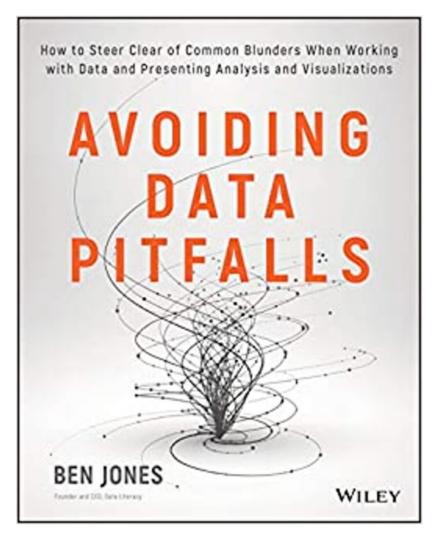
Clinical Research Study

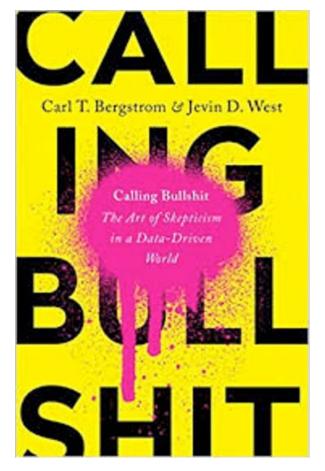
COVID Vaccine Hesitancy and Risk of a Traffic Crash

Donald A. Redelmeier MD, FRCPC, MSHSR, FACP a, b, c, d, e △ ☒, Jonathan Wang MMASc b, c , Deva Thiruchelvam MSc a, c

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https://www.callingbullshit.org/

The Website will stay up! The github will stay up!

The AWS supercomputer will die on Monday.